

02/17/88

DOUGLAS AIRCRAFT CO. 1C  
2900 E. COVER ROAD  
GATE 5, BLDG 10, DEPT C1-324P  
LONG BEACH, CA 90846

SUBJECT: Material Safety Data Sheet

PRODUCT REFERENCE: SC-0654

Dear Customer:

Enclosed are Material Safety Data Sheets (MSDS) for H. B. Fuller Company products. We have reviewed our products, conducted a hazard determination, and prepared an MSDS for each product, which to the best of our knowledge, is in compliance with the requirements of the Occupational Safety and Health Administration Hazard Communication Standard 29 CFR 1910.1200. In some areas we may have provided more information than the Standard requires.

If this product, or any component of it, is considered to be hazardous or carcinogenic under the OSHA Hazard Communication Standard, information is indicated in the 'HAZARDOUS INGREDIENTS' section or in the 'EFFECTS OF OVEREXPOSURE' section.

Fuller warrants that each of its products will meet the specifications published in the Fuller product data sheet, for the shelf life period stated in that data sheet. FULLER MAKES NO OTHER WARRANTIES. If a product fails to meet this warranty, Fuller will at its option replace or repair the product or refund the purchase price. NO OTHER REMEDIES (INCLUDING CLAIMS FOR INDIRECT OR OTHER DAMAGES) ARE AVAILABLE. FOR COMPLETE INFORMATION ON FULLER WARRANTIES AND REMEDIES, CONSULT THE PRODUCT DATA SHEET OR PRODUCT LABEL.

If you have any questions, please contact your Sales Representative.

Sincerely yours,

H.B. FULLER COMPANY

John R. Dolmar, CIH  
Manager, Industrial Hygiene

## MATERIAL SAFETY DATA SHEET

H. B. Fuller Company  
1200 Wolters Boulevard  
Vadnais Heights, Minnesota 55110

Date: 18 June 1987

Prepared by: John R. Dolmar  
Telephone Number: 612/481-3300

### PRODUCT IDENTIFICATION

Product Class:  
Solvent based adhesive

H. B. Fuller Company Name: SC-0654

DOT Proper Shipping Name: Adhesive

DOT Hazard Class/I.D. Number: Flammable liquid, UN-1133

DOT Label: Flammable liquid

### WARNING STATEMENTS

Flammable  
Eye irritant  
Contact will dry and defat the skin  
Vapors harmful  
Harmful if swallowed

### PRECAUTIONARY MEASURES

Keep away from heat, sparks and flame  
Avoid breathing vapors  
Use only with adequate ventilation  
Avoid contact with eyes, skin and clothing  
Wash thoroughly after handling  
Keep container closed  
Emptied container retains vapor and product residue  
Observe all labeled safeguards until container is  
cleaned  
DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER

### HMIS RATING

Health-2      Flammability-3      Reactivity-0

### EMERGENCY AND FIRST AID PROCEDURES

#### FIRST AID:

If in eye:	Flush immediately with large amounts of water for at least 15 minutes. Call a physician.
If on skin:	Wash affected area with soap and water. Launder contaminated clothing before reuse.
If vapors inhaled:	Remove from exposure. Restore breathing if necessary. Keep warm and quiet. Call a physician.
In case of fire:	Extinguish with water spray, foam, dry chemical or carbon dioxide.
Spill or Leak:	Contain and remove with inert absorbent. Use non-sparking tools. Keep spill out of sewers.

NA - not applicable  
NE - not established

## HAZARDOUS INGREDIENTS

Material Name/CAS #	Level In Product > 10%	OSHA PEL	ACGIH TLV (1986,1987)
Hexanes n-hexane (110-54-3) other isomers		500 ppm NE	50 ppm 500 ppm
Flash point, F: less than 0			
LEL, %: 1.1			
Vapor pressure, in mm Hg @ 20 C: 120			
ACGIH STEL: 1000 ppm (for isomers)			

## OCCUPATIONAL CONTROL PROCEDURES

Eye Protection:	Wear safety glasses to reduce the potential for eye contact; chemical safety goggles are appropriate if splashing is likely. Have eye washes available where eye contact can occur.
Skin Protection:	Prevent contact by using rubber gloves and appropriate protective clothing. Launder contaminated clothing before reuse.
Respiratory Protection:	Use NIOSH approved equipment - organic vapor respirators when airborne exposure limits are exceeded.
Ventilation:	Local exhaust ventilation preferred. Provide ventilation to control contaminant levels below airborne exposure limits.

## FIRE PROTECTION

Flash Point/Method:	Less than 0 degrees F TCC
Appropriate Extinguishers:	Use water spray, foam, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.
Unusual Fire and Explosion Hazards:	There is the possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers.

## REACTIVITY DATA

Stability:	Stable
Incompatibility:	Not established
Hazardous Decomposition Products:	Incomplete combustion can yield low molecular weight hydrocarbons, carbon monoxide
Hazardous Polymerization:	Will not occur

## EFFECTS OF OVEREXPOSURE

Eyes:	Contact with the product or high vapor levels will cause moderate irritation.
Skin:	Liquid contact will dry and defat the skin. Repeated or prolonged contact may cause irritation and dermatitis.
Inhalation:	Overexposure to vapors in poorly ventilated areas will cause irritation of the nose, throat and respiratory tract and may cause dizziness, headaches, nausea or unconsciousness.

NA - not applicable  
NE - not established

**Chronic:**

Long term overexposure to solvents may cause liver and kidney damage. n-hexane has been demonstrated to cause peripheral nerve damage in overexposed workers. Symptoms include loss of feeling and weakness in the hands and feet and loss of manual dexterity. This product does not contain regulated levels of NTP, IARC, or OSHA listed carcinogens.

**Existing Health Conditions Affected by Exposure:**

No known effects on other illnesses.

**PHYSICAL DATA**

Physical State:	Liquid
Weight per Gallon:	8.1 lbs.
Viscosity:	60000 cps
% Solids by Weight:	60
pH:	NA
Boiling Range:	Greater than 156 F
Soluble in Water:	Non-miscible

**SPILL, LEAK & DISPOSAL INFORMATION**

**Spill or Leak Procedures:** Remove all sources of ignition. Ventilate area. Avoid breathing vapors. Dike and contain spill with inert absorbent and transfer to container for disposal. Use non-sparking tools. Keep spill out of sewers.

**Waste Disposal:** This product meets the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. It is ignitable waste class D001. Disposal via incineration is recommended. Consult your state or local authorities for proper disposal in the event more restrictive requirements apply.

**STORAGE**

Store in compliance with OSHA 1910.106. Do not store near heat, sparks or flame.

**ADDITIONAL INFORMATION**

Drums of this material should be grounded when pouring.

NA - not applicable  
NE - not established